

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

Claims 1 – 18 (cancelled)

Claim 19 (previous presented) A method of reconstructing a mammalian embryo comprising the steps of:

reconstructing a first generation embryo by transferring a mononuclear cell isolated from the blood or natural secretion of a mammal, or an isolated nucleus of said mononuclear cell, into the cytoplasm of an enucleated oocyte;

activating the oocyte to start the development program of the oocyte;

developing the reconstructed first generation embryo to a stage where it can be transferred to a uterus; and

transferring a cell isolated from the first generation embryo, or an isolated nucleus of said cell, into the cytoplasm of an enucleated oocyte to form a second generation embryo.

Claim 20 (previous presented) A method of reconstructing a mammalian embryo comprising the steps of:

reconstructing a first generation fetus by development of a first generation embryo reconstructed by transferring a mononuclear cell isolated from the blood or natural secretion of a mammal, or an isolated nucleus of said mononuclear cell, into the cytoplasm of an enucleated oocyte;

activating the oocyte to start the developmental program of the oocyte;

developing the reconstructed first generation embryo to the fetus stage *in vivo*; and

preparing fetal fibroblast cultures therefrom and transferring a cell isolated from said fetal fibroblast cultures, or an isolated nucleus of said cell, into the cytoplasm of an enucleated oocyte to form a second generation embryo.

Claim 21 (original) The method according to claim 20 further comprising the step of genetic modification of the cells of the fetal fibroblast cultures prior to second generation cloning.

Claims 22 – 25 (cancelled)

Claim 26 (previously presented) A method of producing a mammal comprising the step of claim 19 wherein the second generation embryo is developed to term.

Claim 27 (previously presented) A method of producing a mammal comprising the step of claim 20 wherein the second generation embryo is developed to term.

Claim 28 (previously presented) A method of producing a mammal comprising the step of claim 21 wherein the second generation embryo is developed to term.

Claim 29 (new) The method of reconstructing a mammalian embryo according to claim 19, wherein the mammal is selected from the group consisting of cattle, buffalo, sheep, goats and pigs.

Claim 30 (new) The method of reconstructing a mammalian embryo according to claim 29, wherein the mammal is cattle.

Claim 31 (new) The method of reconstructing a mammalian embryo according to claim 20, wherein the mammal is selected from the group consisting of cattle, buffalo, sheep, goats and pigs.

Claim 32 (new) The method of reconstructing a mammalian embryo according to claim 31, wherein the mammal is cattle.